

10/033 242

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10546	(707/8,10,104.1,201).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/01/13 12:52
L2	10896	(709/203,219,227).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/01/13 12:53
L3	2021	(711/118,123,126).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2006/01/13 12:53
L4	22187	1 or 2 or 3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 12:53
L5	317	(database\$1 or data near base) same cach\$3 same (synchroniz\$6) and client\$1 same server\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 12:55
L6	91	4 and 5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 12:54
L7	317	((database\$1 or data near base) same cach\$3 same (synchroniz\$6) and client\$1 same server\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:11
L8	5929	((modify or modification or chang\$3 or updat\$3) same cach\$3) and notify or notification same cach\$4 same (chang\$4 or updat\$4 or modif\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:01

L9	103	7 and 8	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:01
L10	35	9 and 6	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:03
L11	15292	4 and (database\$1 or data near base\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:06
L12	11129	11 and (cach\$3 or (local nearcach\$4))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:04
L13	9780	12 and file\$2	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:04
L14	1837	13 and ((modif\$6 or chang\$4 or updat\$4) same cach\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:05
L15	1582	14 and ((database\$1 or data near base\$1) same quer\$4 or retriev\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:06
L16	806	15 and (notif\$4 or warning or alert)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:07

L17	760	16 and server	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:07
L18	743	17 and type	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:08
L19	37	5 and 17	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:08
L20	12	(overwrit\$3) same (previous or prior) same (modif\$7 or chang\$4 or updat\$4) same (database\$1 or data near base) and cach\$3 same (client\$1 same server)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:11
L21	91	4 and ((database\$1 or data near base) same cach\$3 same (synchroniz\$6) and client\$1 same server\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:11
L22	58	1 and ((database\$1 or data near base) same cach\$3 same (synchroniz\$6) and client\$1 same server\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:11
L23	33	2 and ((database\$1 or data near base) same cach\$3 same (synchroniz\$6) and client\$1 same server\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:11
L24	12	3 and ((database\$1 or data near base) same cach\$3 same (synchroniz\$6) and client\$1 same server\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:11

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	file\$4 same (cach\$3) same (synchron\$3) and (predeter\$5 or pre-set\$4) same sched\$6	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:19
L2	20	(modif\$4 or updat\$4 or sav\$4) with cach\$4 and (send\$3 or noti\$5 or alert\$4) with file near manag\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:20
L3	2	management\$2 with (cach\$3) same (synchron\$6) and cach\$4 with (modif\$5 or updat\$4) with sched\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:22
L4	433	(collabor\$3 or group\$3)same (modif\$7 or chang\$5 or updat\$7) same (database\$1 or data near base\$1) and cache\$3 same (client\$1 same server)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:24
L5	404	4 and connection	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:25
L6	131	5 and "707"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:25
L7	72	6 and synchro\$7	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:26
L8	26728	"711"/\$.ccls. and (re-establish\$3 near connection\$1) same userid\$1 or userid\$1 or login or loon	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:28

L9	26728	(re-establish\$3 near connection\$1) same userid\$1 or userid\$1 or login or loon	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:27
L10	14	(re-establish\$3 near connection\$1) same (userid\$1 or userid\$1 or login or logon)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:27
L11	13	10 and 8	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/01/13 13:28


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Relevance scale

1 [XML transactions: Efficient synchronization for mobile XML data](#)



Franky Lam, Nicole Lam, Raymond Wong

 November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Publisher: ACM Press

 Full text available: pdf(116.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many handheld applications receive data from a primary database server and operate in an intermittently connected environment these days. They maintain data consistency with data sources through synchronization. In certain applications such as sales force automation, it is highly desirable if updates on the data source can be reflected at the handheld applications immediately. This paper proposes an efficient method to synchronize XML data on multiple mobile devices. Each device retrieves and cac ...

Keywords: XML, information dissemination, information subscription, path containment

2 [Integrated document caching and prefetching in storage hierarchies based on Markov-chain predictions](#)

Achim Kraiss, Gerhard Weikum

 August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3

Publisher: Springer-Verlag New York, Inc.

 Full text available: pdf(603.01 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Large multimedia document archives may hold a major fraction of their data in tertiary storage libraries for cost reasons. This paper develops an integrated approach to the vertical data migration between the tertiary, secondary, and primary storage in that it reconciles speculative prefetching, to mask the high latency of the tertiary storage, with the replacement policy of the document caches at the secondary and primary storage level, and also considers the interaction of these policies with ...

Keywords: Caching, Markov chains, Performance, Prefetching, Scheduling, Stochastic modeling, Tertiary storage


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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies c**

Publisher: IBM Press

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Understanding distributed applications is a tedious and difficult task. Visualizations based on pr understanding of the execution of the application. The visualization tool we use is Poet, an ever these diagrams are often very complex and do not provide the user with the desired overview c repeated occurrences of non-trivial commun ...

2 [Garbage collection for a client-server persistent object store](#)

Laurent Amsaleg, Michael J. Franklin, Olivier Gruber

 August 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(267.18 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [referen](#)

We describe an efficient server-based algorithm for garbage collecting persistent object stores i and runs concurrently with client transactions. Unlike previous algorithms, it does not hold any to clients. It is fault-tolerant, but performs very little logging. The algorithm has been designed works with standard i ...

Keywords: client-server system, logging, persistent object-store, recovery

3 [Distributed, object-based programming systems](#)

Roger S. Chin, Samuel T. Chanson

 March 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(2.97 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [referen](#)

The development of distributed operating systems and object-based programming languages m of a set of interacting modules, or objects, may execute concurrently on a collection of loosely c encourages a methodology for designing and creating a program as a set of autonomous compi collection of workstations or personal computers ...

Keywords: capability scheme, distributed operating systems, error recovery, method invocatic



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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies**

Publisher: IBM Press

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Understanding distributed applications is a tedious and difficult task. Visualizations based on pr
understanding of the execution of the application. The visualization tool we use is Poet, an ever
diagrams are often very complex and do not provide the user with the desired overview of the :
occurrences of non-trivial commun ...

2 [A distributed file service based on optimistic concurrency control](#)

Sape J. Mullender, Andrew S. Tanenbaum

December 1985 **ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM**
19 Issue 5

Publisher: ACM Press

Full text available: [pdf\(910.04 KB\)](#)

Additional Information: [full citation](#), [references](#), [ci](#)

3 [Garbage collection for a client-server persistent object store](#)

Laurent Amsaleg, Michael J. Franklin, Olivier Gruber

August 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: [pdf\(267.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [refe](#)

We describe an efficient server-based algorithm for garbage collecting persistent object stores i
runs concurrently with client transactions. Unlike previous algorithms, it does not hold any tran
is fault-tolerant, but performs very little logging. The algorithm has been designed to be integr

Keywords: client-server system, logging, persistent object-store, recovery

4 [Computing curricula 2001](#)

September 2001 **Journal on Educational Resources in Computing (JERIC)**



Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), .

5 Query evaluation techniques for large databases



Goetz Graefe

June 1993

ACM Computing Surveys (CSUR), Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms will be required to provide acceptable performance. The advent of object-oriented and extensible modern data models exacerbate the problem: In order to manipulate large sets of complex object records, query-processing ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database model of parallelization, parallel algorithms, relational database systems, set-matching algorithm

6 Distributed, object-based programming systems



Roger S. Chin, Samuel T. Chanson

March 1991

ACM Computing Surveys (CSUR), Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(2.97 MB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

The development of distributed operating systems and object-based programming languages or a set of interacting modules, or objects, may execute concurrently on a collection of loosely coupled workstations or personal computers. A methodology for designing and creating a program as a set of autonomous components, when workstations or personal computers ...

Keywords: capability scheme, distributed operating systems, error recovery, method invocation, programming languages, processor allocation, resource management, synchronization, transactions

7 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency



Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Srinivasan

June 2002

Proceedings of the 2002 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(1.44 MB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Managing a combined store consisting of database data and file data in a robust and consistent management systems. In such a hybrid system, images, videos, engineering drawings, etc. are referenced/indexed such files is created and stored in a relational database to take advantage of potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

8 Design of the Mnome persistent object store



J. Eliot B. Moss

April 1990

ACM Transactions on Information Systems (TOIS), Volume 8 Issue 2

Publisher: ACM Press

Full text available: pdf(3.22 MB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

The Mnome project is an investigation of techniques for integrating programming language and information-intensive tasks such as computer-aided software engineering. The project strategy

languages. We report here on the Mnome persistent object store, a fundamental component of stores objects

9 A structural view of the Cedar programming environment



Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986

ACM Transactions on Programming Languages and Systems (TOPLAS), \

Publisher: ACM Press

Full text available: pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [refer](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall they are organized. Cedar supports the development of programs written in a single programm the productivity of programmers whose activities include experimental programming and the de personal computer. T ...

10 XML transactions: Efficient synchronization for mobile XML data



Franky Lam, Nicole Lam, Raymond Wong

November 2002

Proceedings of the eleventh international conference on Information an

Publisher: ACM Press

Full text available: pdf(116.31 KB)

Additional Information: [full citation](#), [abstract](#), [refer](#)

Many handheld applications receive data from a primary database server and operate in an inte consistency with data sources through sychronization. In certain applications such as sales forc can be reflected at the handheld applications immediately. This paper proposes an efficient met device retrieves and cac ...

Keywords: XML, information dissemination, information subscription, path containment

11 Lazy consistency using loosely synchronized clocks



Atul Adya, Barbara Liskov

August 1997

Proceedings of the sixteenth annual ACM symposium on Principles of distribu

Publisher: ACM Press

Full text available: pdf(1.23 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

12 A scalable low-latency cache invalidation strategy for mobile environments



Guohong Cao

August 2000

Proceedings of the 6th annual international conference on Mobile compi

Publisher: ACM Press

Full text available: pdf(1.07 MB)

Additional Information: [full citation](#), [abstract](#), [refer](#)

Caching frequently accessed data items on the client side is an effective technique to improve p strategies are not suitable for mobile environments due to the disconnection and mobility of the based on invalidation reports (IRs). However, the IR-based cache invalidation solution has two research. First, the ...

13 Replication for web hosting systems



Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen

September 2004

ACM Computing Surveys (CSUR), Volume 36 Issue 3

Publisher: ACM Press

Full text available: pdf(374.99 KB)

Additional Information: [full citation](#), [abstract](#), [refer](#)

Replication is a well-known technique to improve the accessibility of Web sites. It generally offe However, applying replication techniques is not trivial, and various Content Delivery Networks (providers. The success of these CDNs has triggered further research efforts into developing adv that ...

Keywords: Web replication, content delivery networks

14 Rover: a toolkit for mobile information access



A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth A**
Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(2.18 MB)

Additional Information: [full citation](#), [references](#), [ci](#)

15 Design and evaluation of a conit-based continuous consistency model for replicated servic



Haifeng Yu, Amin Vahdat

August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3

Publisher: ACM Press

Full text available: pdf(406.85 KB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

The tradeoffs between consistency, performance, and availability are well understood. Tradition choose from either strong consistency guarantees or none at all. This paper explores the semar models for replicated services. We argue that an important class of applications can tolerate rel inconsistent access ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consis

16 Heterogeneous distributed database systems for production use



Gomer Thomas, Glenn R. Thompson, Chin-Wan Chung, Edward Barkmeyer, Fred Carter, Marjorie 1
September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(2.90 MB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

It is increasingly important for organizations to achieve additional coordination of diverse comp systems that can operate over a distributed network and can encompass a heterogeneous mix database management systems. This paper outlines approaches to various aspects of heteroge characteristics and architectures of ...

17 A fragment-based approach for efficiently creating dynamic web content



Jim Challenger, Paul Dantzig, Arun Iyengar, Karen Witting

May 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(2.33 MB)

Additional Information: [full citation](#), [abstract](#), [refe](#)

This article presents a publishing system for efficiently creating dynamic Web content. Complex may recursively embed other fragments. Relationships between Web pages and fragments are for efficiently detecting and updating Web pages affected after one or more fragments change. consistently; different algorithms are ...

Keywords: Caching, Web, Web performance, dynamic content, fragments, publishing

18 Sensor databases: Cache-and-query for wide area sensor databases



Amol Deshpande, Suman Nath, Phillip B. Gibbons, Srinivasan Seshan

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Man**

Publisher: ACM Press

Full text available:  [pdf\(230.75 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [refer](#)

Webcams, microphones, pressure gauges and other sensors provide exciting new opportunities focus on querying *wide area sensor databases*, containing (XML) data derived from sensors spr system for executing XPATH queries on such databases. The system maintains the logical view fragmented across a ...

19 FS2: dynamic data replication in free disk space for improving disk performance and energ



Hai Huang, Wanda Hung, Kang G. Shin

October 2005

ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ,

Volume 39 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(542.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [refer](#)

Disk performance is increasingly limited by its head positioning latencies, i.e., seek time and ro propose a novel technique that *dynamically* places copies of data in file system's *free blocks* ac more replicas can now be accessed in addition to their original data block, choosing the "nearest pe ...

Keywords: data replication, disk layout reorganization, dynamic file system, free disk space

20 Paradigms for process interaction in distributed programs




Gregory R. Andrews

March 1991

ACM Computing Surveys (CSUR), Volume 23 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(3.77 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [refer](#)

Distributed computations are concurrent programs in which processes communicate by messag architectures such as networks of workstations or distributed memory parallel machines (i.e., n or models—for process interaction in distributed computations are described. These include net probe/echo algorithms, broa ...

Keywords: clients and servers, distributed and parallel algorithms, distributed programming, c of filters, patterns for interprocess communication, probe/echo algorithms, replicated servers, t

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or data near base)<in>metadata) and cache)and synchronizing
or synchronization
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or synchronization and (updat\$4 or correct\$4 or modify or
modifying or modification)
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or synchronization and (updat\$4 or correct\$4 or modify or
modifying or modification)
- #6 (((database or data near base)<in>metadata)<and>((database
or data near base)<in>metadata) and cache)and synchronizing
or synchronization and (updat\$4 or correct\$4 or modify or
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- #7 (((database or data near base)<in>metadata)<and>((database
or data near base)<in>metadata) and cache)and synchronizing
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- #8 5 and connection
- #9 8 and client near1 server
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» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

Select Article information

- ☐ 1. **Communications and consistency in mobile file systems**
Honeyman, P.; Huston, L.B.;
Personal Communications, IEEE [see also IEEE Wireless Communications]
Volume 2, Issue 6, Dec. 1995 Page(s):44 - 48
Digital Object Identifier 10.1109/98.475987
[AbstractPlus](#) | Full Text: [PDF\(588 KB\)](#) IEEE JNL
- ☐ 2. **Noncooperative content distribution in mobile infostation networks**
Wing Ho Yuen; Yates, R.D.; Siun-Chuon Mau;
Wireless Communications and Networking, 2003. WCNC 2003. 2003 IEEE
Volume 2, 16-20 March 2003 Page(s):1344 - 1349 vol.2
[AbstractPlus](#) | Full Text: [PDF\(400 KB\)](#) IEEE CNF
- ☐ 3. **Cache cooperation for clustered disconnected computers**
Yasuda, K.;
Parallel and Distributed Systems, 2002. Proceedings. Ninth International Conference
17-20 Dec. 2002 Page(s):457 - 464
Digital Object Identifier 10.1109/ICPADS.2002.1183439
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